

# Cardiac Arrest: General

## History

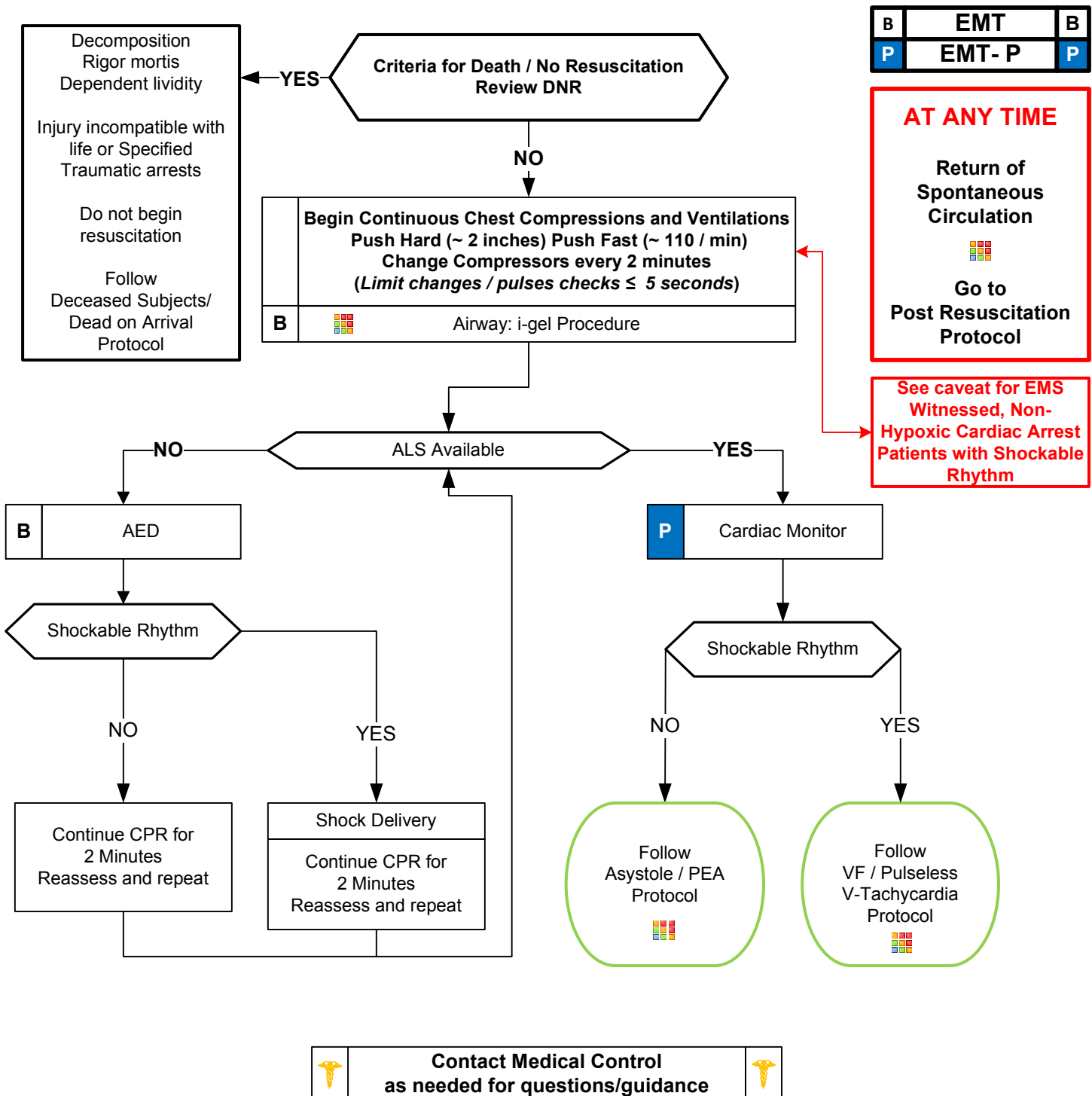
- Events leading to arrest
- Estimated downtime
- Past medical history
- Medications
- Existence of terminal illness
- Left Ventricular Assist Device

## Signs and Symptoms

- Unresponsive
- Apneic
- Pulseless

## Differential

- Medical vs. Trauma
- VF vs. Pulseless VT
- Asystole
- PEA
- Primary Cardiac event vs. Respiratory arrest or Drug Overdose
- Hypoxic vs. Non-Hypoxic



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## Pearls

- **Effective CPR and prompt defibrillation are the keys to successful resuscitation; therefore, primary resuscitative efforts should be directed at high quality and continuous compressions with limited interruptions and early defibrillation when indicated.**
- **DO NOT HYPERVENTILATE! Ventilations are accomplished utilizing an adult BVM with just enough compression to achieve chest rise. Ventilate at 6 breaths per minute (once every 10 seconds) with continuous, uninterrupted compressions.**
- Non-Hypoxic Origin Cardiac Arrest is typically an arrest suspected of being primarily cardiac in origin, without concern for low oxygen reserves pre-arrest.  
Hypoxic Origin Cardiac Arrest Examples: Primary respiratory arrest, CHF, COPD, Smoke Inhalation, Drowning, Hanging, etc.
- **EMS Witnessed, Non-Hypoxic Cardiac Arrest Patients with Shockable Rhythm ONLY: Delay ventilations in preference to passive oxygenation for the first 6 minutes of continuous cardiac compression.**
- If functioning appropriately, the preference is to leave the i-gel in place to limit interruptions in chest compressions. If intubation is considered, do not interrupt chest compressions to place the endotracheal tube. Frequently reassess airway placement and EtCO<sub>2</sub>, especially after every move, and at transfer of care.
- **Maternal Arrest** - Treat mother per appropriate protocol with immediate and rapid transport. Place mother supine and perform Manual Left Uterine Displacement moving uterus to the patient's left side. IV/IO access preferably above diaphragm. Defibrillation is safe at all energy levels.
- Refer to the Dialysis / Renal Failure protocol caveats when faced with a dialysis / renal failure patient experiencing cardiac arrest.
- Consider hypoglycemia; measure blood glucose and treat appropriately.